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**TRANSMITTAL OF ERRATA PAGES FOR THE OPERABLE UNIT 1  
FINAL REMEDIAL INVESTIGATION REPORT**

03/06/95

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LETTER



Department of Energy  
Fernald Environmental Management Project  
P. O. Box 538705  
Cincinnati, Ohio 45253-8705  
(513) 648-3155

MAR 06 1995

DOE-0661-95

Mr. James Saric, Remedial Project Manager  
U.S. Environmental Protection Agency  
Region V - 5HRE-8J  
77 W. Jackson Boulevard  
Chicago, IL 60604-3590

Mr. Thomas Schneider, Project Manager  
Ohio Environmental Protection Agency  
401 East Fifth Street  
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**TRANSMITTAL OF ERRATA PAGES FOR THE OPERABLE UNIT 1 FINAL REMEDIAL INVESTIGATION REPORT**

The purpose of this letter is to transmit errata pages for the U.S. Department of Energy Operable Unit 1 (OU1) Final Remedial Investigation (RI) Report. The errata pages reflect revised reference citations and a correction of a typographical error in a table of background values. These corrections do not alter conclusions drawn in the Feasibility Study, Proposed Plan, or Record of Decision.

Please insert these errata pages into the front of Volume I of the final publication OU1 RI report which was issued September 2, 1994.

If you have any questions, please contact Dave Lojek at (513) 648-3127.

Sincerely,

*Johnny Raising*

for

Jack R. Craig  
Fernald Remedial Action  
Project Manager

FN:Lojek

Enclosures: As Stated



Recycled and Recyclable



cc w/enc:

K H. Chaney, EM-423/QO  
G. Jablonowski, USEPA-V, HRE-8J  
P. VanLeeuwen, USEPA, HSRLT-5J  
J. Kwasniewski, OEPA-Columbus  
P. Harris, OEPA-Dayton  
M. Proffitt, OEPA-Dayton  
S. McClellan, PRC  
R. Cohen, GeoTrans  
F. Bell, ATSDR  
R. Owen, ODOH  
R. D. George, FERMCO/52-2  
T. Hagen, FERMCO/65-2  
AR Coordinator, FERMCO

cc w/o enc:

K. Chaney, EM-423, QO  
D. Kozlowski, EM-423, QO  
S. Fauver, EM-423, QO  
G. Mitchell, OEPA-Dayton  
R. Fellman, FERMCO  
T. Hagen, FERMCO  
J. Thiesing, FERMCO  
M. Yates, FERMCO

**ERRATA SHEET**  
**OPERABLE UNIT 1 FINAL REMEDIAL INVESTIGATION**  
**REFERENCES**

For the most part, the following changes are corrections to references in the text and reference lists for Volume 1 and Appendix E of the Operable Unit 1 Remedial Investigation. (There is one case where a typographical error in a table of background values is corrected. This correction, indicated by an \*, did not affect conclusions made in the RI.) Changes are listed by section, followed by reference list changes. The reference list changes incorporated all reference lists identified in Section 1-7, Appendix D and Appendix E.

**Section 1**

- On Page 1-23, paragraph 3, "(Weston 1986)" should be deleted.
- On Page 1-25, paragraph 1, "(Weston 1986)" should be deleted.
- On Page 1-25, paragraph 1, "(Weston 1986)" should be deleted.
- On Page 1-25, paragraph 4, "NLO, 1970" should be "NLCO 1970".
- On Page 1-42, paragraph 5, "(Weston 1987)" should be deleted.
- On Page 1-43, paragraph 2, "Spieker 1968b, c" should be "Spieker 1968a, b".
- On Page 1-44, paragraph 2, "(Weston 1986)" should be deleted.
- On Page 1-53, paragraph 4, "DOE 1988" should be "DOE 1988c".

**Section 2**

- On Page 2-36, paragraph 2, the last sentence should read, "Detailed information on the sampling plan methodologies can be found in the RI/FS Work Plan (DOE 1988a), Sampling and Analysis Plan (DOE 1992b), and the Quality Assurance Project Plan (DOE 1988b)."
- On Page 2-41, paragraph 2, "IT 1992" should be DOE "1993b".
- On Page 2-59, paragraph 2, "ASI/IT 1990" should be "DOE 1990a".
- On Page 2-63, paragraph 1, "EPA 1988" should be "EPA 1988b".

**Section 3**

On Page 3-21, paragraph 2, "(DOE 1990)" should be "(DOE 1990b)".

**Section 4**

On Page 4-19, paragraph 3 at the bottom of the page, "Bridle 1984" should be deleted.

On Page 4-20, paragraph 1, "Tschirley 1986" should be deleted.

On Page 4-20, paragraph 2, "Wild 1992" should be deleted.

On Page 4-21, Paragraph 1, "Baugh and Brubaker 1988" should be deleted.

On Page 4-141, paragraph 2, "ASI/IT 1990" should be "DOE 1990c".

On Page 4-152, paragraph 4, "ASI/IT 1990" should be "DOE 1990c".

On Page 4-153, paragraph 1, "ASI/IT 1990" should be "DOE 1990c".

\* On Page 4-216, last line of Table 4-2 on this page, "3.17 mg/kg<sup>j</sup> of Total Uranium" should be "3.71 mg/kg<sup>j</sup>".

**Section 5**

On Page 5-10, paragraph 4, "Mockus 1972" should be deleted.

On Page 5-32, paragraph 5, "IT 1990a" should be "DOE 1993e".

On Page 5-45, paragraph 4, the Operable Unit 4 Baseline Risk Assessment should be referenced as "DOE 1993f".

**Section 6**

On Page 6-17, paragraph 2, "EPA (1986c)" should be "EPA (1986b)".

On Page 6-17, paragraph 2, "EPA 1989i" should be "EPA 1989b".

On Page 6-20, paragraph 2, "(EPA 1993c)" should be "(EPA 1992a)".

Section 7

On Page 7-29, paragraph 1, "EPA 1992a" should be "EPA 1993a".

Appendix E

On Page E-4-8, paragraphs 4 and 6, "Clement 1990" should be "USEPA 1993g".

On Page E-4-24 "Quast 1982" should be "EPA 1992a".

On Page E-4-25 "National Cancer Institute [NCI] 1978b" should be "EPA 1992a".

On Page E-4-27, paragraph 3, "Velsicol Chemical Co. 1983" should be "EPA 1992a".

On Page E-4-28, paragraph 2, "EPA 1992g" should be deleted.

On Page E-4-28, paragraph 4, "EPA 1992g" should be deleted.

On Page E-4-29, paragraph 2, "EPA 1992g" should be deleted.

On Page E-4-29, paragraph 3, "EPA 1992g" should be deleted.

On Page E-4-29, paragraph 4, first sentence, "EPA 1992g" should be deleted.

On Page E-4-29, paragraph 4, third sentence, "EPA 1992g" should be deleted.

On Page E-4-29, paragraph 5, "EPA 1990b" should be deleted.

On Page E-4-31 "NCI 1978c" should be "ATSDR 1989".

On Page E-4-34, paragraph 3, "Sherman 1974" should be "EPA 1992a".

On Page E-4-38, paragraph 4, "Food Research Laboratories, Inc. 1955" should be "EPA 1992a".

On Page E-4-57, paragraph 3, "EPA 1993c" should be deleted.

On Page E-4-57, paragraph 5, "EPA 1993c" should be deleted.

On Page E-4-62, paragraph 1, "LaVoie et al. 1982" should be "EPA 1992a".

On Page E-4-66, paragraph 1, "Clement International 1990" should be "USEPA 1993g".

On Page E-4-84, paragraph 2, "Faber 1977" should be deleted.

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On Page E-4-89, paragraph 4, "NCI 1978" should be "NCI 1978d".

On Page E-4-89 "NCI 1978d" should be "EPA 1992a".

"EPA 1992b (HEAST)" should be changed throughout Appendix E to "EPA 1993g", specifically on the following pages:

E-3-50, E-3-51, E-4-5, E-4-6 twice, E-4-7, E-4-11, E-4-15 twice, E-4-16 twice, E-4-17, E-4-18 twice, E-4-19 twice, E-4-21, E-4-22 3 times, E-4-23, E-4-30, E-4-32, E-4-33 twice, E-4-35 twice, E-4-36, E-4-37 3 times, E-4-38, E-4-39 twice, E-4-41 3 times, E-4-42 3 times, E-4-45, E-4-46 twice, E-4-48, E-4-49 twice, E-4-50 3 times, E-4-51 twice, E-4-52 3 times, E-4-53, E-4-55, E-4-56, E-4-58, E-4-59, E-4-62, E-4-63 twice, E-4-64 4 times, E-4-73, E-4-74, E-4-78 twice, E-4-81 twice, E-4-86, E-4-87 3 times, E-4-89 twice, E-4-90 twice, E-4-91, E-4-96, E-4-97, E-4-98 twice, E-4-99

#### Appendix F

On Page F-6-19, paragraph 2, "(NLO Losses)" should be ", (NLCO 1966-1984)."

On Page F-6-19, paragraph 3, "(NMC Losses)" should be ", based on losses described in NLO monthly reports (NLCO 1979)".

On Page F-6-40, paragraph 3, "(NLO Losses)" should be ", (NLCO 1953-1985)."

**Volume 1 Reference List Changes**

This reference list incorporates all references identified in Section 1-7, Appendix D and Appendix E. The following additions, changes, and deletions have been made to correct any duplicate or incomplete references and to more accurately reflect text citations.

**Additions:**

Haith, D. A., 1980, "A Mathematical Model for Estimating Pesticide Losses in Runoff," J. of Environmental Quality, Vol. 9, No. 3, pp. 428-433.

Hershfield, D. M., 1961, "Rainfall Frequency Atlas of the United States for Duration from 30 Minutes to 24 Hours and Return Periods from 1 to 100 Years," U.S. Department of Agriculture, available from the U.S. Government Printing Office.

International Technology Corp. (IT), 1990, "Fernald RI/FS Groundwater Modeling, Flow and Solute Transport Computer Code Verification, Final Report," prepared for U.S. DOE, Oak Ridge Operations Office, Oak Ridge, TN.

Mills, W. B., J. D. Dean, D. B. Porcella, et al., 1982, "Water Quality Assessment: A Screening Procedure for Toxic and Conventional Pollutants: Parts 1, 2, and 3," EPA/600/6-82/004, U.S. EPA, Office of Research and Development, Environmental Research Laboratory, Athens, GA.

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Ohio Environmental Protection Agency (OEPA), 1982, "Comprehensive Water Quality Report for the Lower Mainstream of the Great Miami River," OEPA, Southwest District Office, Dayton, OH.

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Water Runoff Control, Feed Materials Production Center," U.S. DOE, Oak Ridge Operations Office, Oak Ridge, TN.

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#### Changes:

- |     |  |
|-----|--|
| Old | National Lead Company of Ohio, Inc., <u>Routine Operating Losses of Nuclear Materials from the Production Stream (monthly reports)</u> . NLCO, Cincinnati, OH.     |
| New | National Lead Company of Ohio, Inc., 1979. " <u>Routine Operating Losses FVA-VVB</u> ," dated July 9, 1979; August 8, 1979; October 8, 1979; NLCO, Cincinnati, OH. |
| Old | Parsons, May 1993, "Waste Pit Contents Study Report, Operable Unit 1," (Rev. B, Advanced 90% Draft), Fairfield, Ohio.  |
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- Old Ohio Environmental Protection Agency, "Comprehensive Water Quality Report for the Lower Mainstream of the Great Miami River (River Mile 92.5 - 0.9), Montgomery, Warren, Butler, and Hamilton Counties, Ohio," Final Draft, Division of Wastewater and Pollution Control, OEPA, Columbus, Ohio.
- New Ohio Environmental Protection Agency (OEPA), 1984, "Comprehensive Water Quality Report for the Lower Mainstream of the Great Miami River (River Mile 92.5 - 0.9), Montgomery, Warren, Butler, and Hamilton Counties, Ohio," Final Draft, Division of Wastewater and Pollution Control, OEPA, Columbus, Ohio, September.
- Old U.S. Department of Energy, 1993d, letter from N.C. Kaufman, President of FERMCO and T. J. Rowland, Acting Manager of DOE-FEMP, to Paul Pardi of Ohio EPA, Subject: Status of FEMP Wastewater Treatment Units as SWMUs or HWMUs, DOE, Fernald, OH, May 13.
- New U.S. Department of Energy, 1993d, letter from N.C. Kaufman, President of FERMCO and T. J. Rowland, Acting Manager of DOE-FEMP, to Paul Pardi of Ohio EPA, C:OP:93-0737, Subject: Status of FEMP Wastewater Treatment Units as SWMUs or HWMUs, DOE, Fernald, OH, May 13.
- Old U.S. Department of Energy (DOE), 1990, "Biological Sampling and Analysis Report," DOE, Fernald Field Office, Fernald, OH.
- New U.S. Department of Energy (DOE), 1990\*, "Biological Sampling and Analysis Report," DOE, Fernald Field Office, Fernald, OH.
- Old U.S. Department of Energy (DOE), 1990, "A Probabilistic Risk Assessment for the K-65 Silos at the FMPC," DOE, Oak Ridge Operations Office, Oak Ridge, TN.
- New U.S. Department of Energy (DOE), 1990\*, "A Probabilistic Risk Assessment for the K-65 Silos at the FMPC," DOE, Oak Ridge Operations Office, Oak Ridge, TN.
- Old U.S. Department of Energy (DOE), 1993, Technical Report 5.1A, "Engineering Evaluation Report for On-Site Disposal," prepared for DOE by IT Corporation, DOE, Fernald, OH.
- New U.S. Department of Energy (DOE), 1993e, Technical Report 5.1A, "Engineering Evaluation Report for On-Site Disposal," prepared for DOE by IT Corporation, DOE, Fernald, OH, February.

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- Old U.S. Department of Energy (DOE), 1988, March 1988, "Remedial Investigation and Feasibility Study, FEMP, Fernald, Ohio, Work Plan," Vols. 1 through 5, U.S. Department of Energy, Fernald, OH.
- New U.S. Department of Energy (DOE), 1988c, "Remedial Investigation and Feasibility Study, FEMP, Fernald, Ohio, Work Plan," Vols. 1 through 5, U.S. Department of Energy, Fernald, OH, March.
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- New DOE, 1993g, Waste Pits Historical Configuration Index Sheet (for Drawings - 0248, - 0249, - 0250, - 0251, - 0252, - 0253, - 0254, - 0255, - 0256, - 0257), Drawing # 21A-5500-G-00260-0, U.S. DOE Fernald Field Office, Fernald, OH.
- Old U.S. Environmental Protection Agency (EPA), 1985, "Health Assessment Document for Polychlorinated Dibenzo-p-Dioxins, "EPA/600/8-84/014f, NTIS No. PB86-122546, Office of Health and Environmental Assessment, Washington, DC.
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- Old U.S. Environmental Protection Agency (EPA), 1992, "Risk Assessment Guidance for Superfund, Vol. I, HHEM, Supplemental Guidance for Superfund, Dermal Risk Assessment, Interim Guidance," Public 9285.7-01B. EPA, OERR, Office of Emergency and Remedial Response, Washington, DC.
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- Old U.S. Environmental Protection Agency (EPA), 1993d, Memorandum from J. Dollaride, ECAO, to P. VanLeeuwen, EPA Region V, July 21, 1993. Attachment C: "Review of Position Paper on Proposed Modifications to Soil Cleanup Levels."
- New U.S. Environmental Protection Agency (EPA), 1993d, Memorandum from J. Dollaride, ECAO, to P. VanLeeuwen, EPA Region V, Subject: "Chronic and Subchronic, Systemic and Carcinogenic, Oral and Inhalation Toxicity Information for 2-Hexanone (Methyl-n-butyl Ketone, CAS No. 591-78-6), Magnesium (CAS No. 7439-95-6), Tributyl Phosphate (CAS No. 126-73-8), and Mixed Xylenes (CAS No. 1330-20-7). Oral and Dermal Absorption Factors for Multiple Chemicals (FEMP Operable Unit 4/Fernald, OH)." July 21, 1993. Attachment 6: Subject: "Review of Position Paper on Proposed Modifications to Soil Cleanup Levels, American Chemical Services Site, Griffith, Indiana EPA ID IND016360265," March 18, 1993.

- Old Clement International, 1990, "Development of Relative Potency Estimates for PAHs and Hydrocarbon Combustion Product Fractions Compared to Benzo[a]Pyrene and their use in Carcinogen Risk Assessments," prepared for the U.S. EPA, Washington, DC.
- New U.S. Environmental Protection Agency (EPA) 1993g, "Provisional Guidance for Quantitative Risk Assessment of Polycyclic Aromatic Hydrocarbons," Office of Research and Development, July 1993.
- Old Walker, A.C., 1986, "Groundwater Resources of Hamilton County," map available from the Ohio Department of Natural Resources, Division of Water, Columbus, OH.
- New Walker, A.C., 1986, "Groundwater Resources of Hamilton County," map available from the Ohio Department of Natural Resources, Division of Water, Columbus, OH, and in the Miami University Science Department Map Room, Oxford, OH.

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Leuschener, F., B. W. Neumann and F. Hubscher, 1983, "Report on the Subacute Toxicological Studies with Several Fluorocarbons in Rats and Dogs by Inhalation," Arzneim-Forsch, Vol. 33, pp. 1475-1476, (Cited in EPA 1992).

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### Appendix E Reference List Changes

#### **Additions:**

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#### **Changes:**

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New U.S. Dept. of Agriculture, 1986, "National Food Consumption Survey," CSF II Report No. 85-1, available in U.S. EPA King Library, Cincinnati, OH.

#### **Deletion:**

U.S. Environmental Protection Agency, 1992, "[Telephone conversation on December 3, 1992 between Pat Van Leeuwen of U.S. EPA Region V, and M. Bollenbacher and V. Chadambariah of IT Corporation, on exposure parameters to be used in the Operable Unit 1 Risk Assessment for the Central Tendency exposure parameters and the soil ingestion rate for the RME farmer.]"